

Title (en)

HEAD MODULE CAPABLE OF RECIPROCAL ROTATION FOR ELECTRIC CLEANING APPARATUS

Title (de)

KOPFMODUL MIT HIN- UND HERGEHENDER DREHBEWEGUNG FÜR ELEKTRISCHE REINIGUNGSVORRICHTUNG

Title (fr)

MODULE DE TÊTE SUSCEPTIBLE DE ROTATION RÉCIPROQUE DESTINÉ À UN APPAREIL DE NETTOYAGE ÉLECTRIQUE

Publication

**EP 3381403 A1 20181003 (EN)**

Application

**EP 15909025 A 20151125**

Priority

CN 2015095484 W 20151125

Abstract (en)

A head module (2) capable of reciprocal rotation for an electric cleaning apparatus, comprising a cleaning element (21), a head module housing (22), a head module driven rod (23) disposed in a hollow head module housing inner cavity (222) of the housing (22), the driven rod (23) being provided with a hollow cavity (239) for accommodating a drive shaft (11); at least one driven rod gap (231) provided in a region surrounding the hollow cavity body (239); at least one housing inner side notch (221) distributed on a side wall of the housing inner cavity (222), for accommodating a corresponding driven rod protrusion (233) disposed on the driven rod (23), the driven rod (23) further comprising a partially cylindrical or conical cavity body region (238). The diameter of the region (238) or the greatest diameter of a joining portion corresponding to the region (238) is less than the diameter of a cylinder region (113) of the drive shaft (11). When the drive shaft (11) is not yet inserted into the head module driven rod (23), there is a gap (240) between the housing inner side notch (221) and the driven rod protrusion (233) and perpendicular to a direction of the axis of rotation of the drive shaft (11) (L1). The length of the gap in the direction perpendicular to a direction of the axis of rotation of the drive shaft (11) (L1) is greater than or equal to the amount of single-side interference between the driven rod (23) and the drive shaft (11) of the head module.

IPC 8 full level

**A61C 17/22** (2006.01)

CPC (source: EP US)

**A46B 5/0095** (2013.01 - US); **A61C 17/222** (2013.01 - EP US); **A61C 17/225** (2013.01 - EP US); **A61C 17/3418** (2013.01 - US); **A61C 17/34** (2013.01 - US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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